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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/625,284	07/25/2000	Lee H. Veneklasen	4901	7219	
32588	7590 04/10/2003				
	ATERIALS, INC.		EXAM	EXAMINER	
2881 SCOTT BLVD. M/S 2061 SANTA CLARA, CA 95050			VANORE,	VANORE, DAVID A	
			ART UNIT	PAPER NUMBER	
			2881		
			DATE MAILED: 04/10/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summary	09/625,284	VENEKLASEN ET AL.					
	Examiner	Art Unit					
The MAILING DATE of this communication :	David A Vanore	2881					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1) Responsive to communication(s) filed on 1	1 March 2003 .						
2a) ☐ This action is FINAL . 2b)⊠	This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4) Claim(s) 1-29 is/are pending in the application.							
4a) Of the above claim(s) 1-16 and 25-29 is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>17-24</u> is/are rejected.							
7) Claim(s) is/are objected to.	<u> </u>						
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) ☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>25 July 2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal Pa	(PTO-413) Paper No(s) atent Application (PTO-152)					



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DETAILED ACTION

Election/Restrictions

Applicant's election of claims 17-24 in Paper No. 5 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 1-16 and 25-29 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in Paper No. 5.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 17 recites the limitation "the ferrite shield" in line 10. There is insufficient antecedent basis for this limitation in the claim. Since claims 18-24 depend on claim 17, these claims carry the limitations of claim 17 and are therefore rejected under 35 U.S.C. 112, second paragraph for the reason above.

Claim 21 recites the limitation "its upper surface" in line 2. There is insufficient antecedent basis for this limitation in the claim

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 17-24 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Da Lin et al.

Regarding claims 17, 18, 20, and 22, Da Lin et al. teaches an immersion lens comprising a deflection coil (50), an excitation coil (22), a first pole piece (14), a second pole piece coaxial and downstream of the deflection coil (24 and Col. 4 Lines 35-50), a sample support (20) downstream of the charged particle beam and deflection coil. Da Lin et al. teaches that both the pole pieces are comprised of soft iron, which is sufficiently equivalent to ferrite, and that both pole pieces serve as means to shield and restrain magnetic fields. Therefore, since pole piece 14 is intermediate the deflection coil and the support, and serves as a magnetic shield, the limitation of claim 17 is anticipated by Da Lin et al.

Regarding claim 19, the pole piece (24) is coaxial to the deflection coil (50) and extends around the deflection coils (Note Fig. 5 in view of Fig. 1).

Regarding claim 21, the uppermost surface of the magnetic shield means (24) is approximately parallel to a magnetic equipotential surface of a magnetic field generated by the excitation coil. This claim is anticipated by Da Lin et al. because it is broad. The claim does not pin down where in space the magnetic equipotential is in relation to the

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upper surface, therefore the equipotential surface could be anywhere. Given the behaviour of magnetic fields, the excitation coils will necessarily produce an equipotential surface somewhere in space that is approximately parallel to the upper, lower, or side surfaces of the magnetic shield means.

Regarding claim 23, Da Lin et al. teaches a detector (40) intermediate magnetic shield (24) and the support.

Regarding claim 24, Da Lin implicitly teaches that the support for the sample is non-magnetic and explicitly teaches an electrically conductive support. Da Lin et al. teaches that the support, and therefore the sample, is biased with an applied potential (Col. 6 Lines 3-18). Da Lin et al. also teaches that the application of a magnetic field in the proximity of the sample would produce a negative effect on the resolution of secondary electrons emitted from the surface (Col. 5 Lines 55-68). Therefore, the support of Da Lin et al. is conductive and non-magnetic.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A Vanore whose telephone number is 703-306-0246. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Lee can be reached on 703-308-4116. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9318 for regular communications and 703-872-9319 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

dav March 31, 2003

JOHN R. LEE
SUPERVISORY PATENT EXAMINER
TOWNOLOGY CENTER 2800